CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.18/TTVK/WMM/Gradation/2014-15

12.12.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Asst. Executive Engineer,** Hebbala Sub Division, BBMP, Bangalore.

Agency : **Mr. T.T. Vasanth Kumar**, Contractor, Bangalore.

Name of Work : Providing Pot Hole filling to Asphalt surface in Ward No.18, BBMP, Bangalore.

Reference : AEE(Hebbala)/PR/216/2014-15 Dated: 10.12.2014

Date of Testing : 12.12.2014

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): 25400

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	985	985	3.9	96.1	95-100
22.4	6140	7125	28.1	71.9	60-80
11.2	5265	12390	48.8	51.2	40-60
4.75	4375	16765	66.0	34.0	25-40
2.36	3695	20460	80.6	19.4	15-30
0.600	2270	22730	89.5	10.5	8-22
0.075	2350	25080	98.7	1.3	0-8

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

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Job No.: CTCE/BBMP/W.No.18/TTVK/BC/Bitumen/2014-15 16.12.2014

BITUMEN CONTENT DETERMINATION OF BITUMINOUS CONCRETE MIX

As Per IRC:SP:11-1984

CLIENT	**Asst. Executive Engineer,** Hebbala Sub Division, BBMP, Bangalore.
AGENCY	**Mr. T.T. Vasanth Kumar,** Contractor, Bangalore.
NAME OF THE WORK	Providing Pot Hole filling to Asphalt surface in Ward No.18, BBMP, Bangalore.
REFERENCE	AEE(Hebbala)/PR/216/2014-15 Dated: 10.12.2014
SAMPLE I/D	Pot Hole filling to Roads in Ward No.18
DATE OF TESTING	16.12.2014

BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	474	474.5
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	26	25.50
7. Bitumen content in %	5.20	5.10
8. Average	5.15	

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GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

As Per IS 2386 and IRC:SP:11-1984

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DATE OF TESTING	16.12.2014

GRADATION AFTER EXTRACTION

Sieve Size in mm	Trail 1				Specified Limits as per MORTH specification table 500-18 (Grading-2)
	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	34.26	7.23	7.23	92.77	79-100
9.5	41.85	8.83	16.06	83.94	70-88
4.75	85.69	18.08	34.14	65.86	53-71
2.36	91.57	19.32	53.45	46.55	42-58
1.18	44.53	9.39	62.85	37.15	34-48
0.6	32.17	6.79	69.64	30.36	26-38
0.3	26.58	5.61	75.24	24.76	18-28
0.15	35.67	7.53	82.77	17.23	12-20
0.075	42.18	8.90	91.67	8.33	4-10

Sieve Size in mm	Trail 2				Specified Limits as per MORTH specification table 500-18 (Grading-2)
	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	55.36	11.67	11.67	88.33	79-100
9.5	35.87	7.56	19.23	80.77	70-88
4.75	72.46	15.27	34.50	65.50	53-71
2.36	91.52	19.29	53.79	46.21	42-58
1.18	43.58	9.18	62.97	37.03	34-48
0.6	34.26	7.22	70.19	29.81	26-38
0.3	24.18	5.10	75.29	24.71	18-28
0.15	36.32	7.65	82.94	17.06	12-20
0.075	44.89	9.46	92.40	7.60	4-10

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